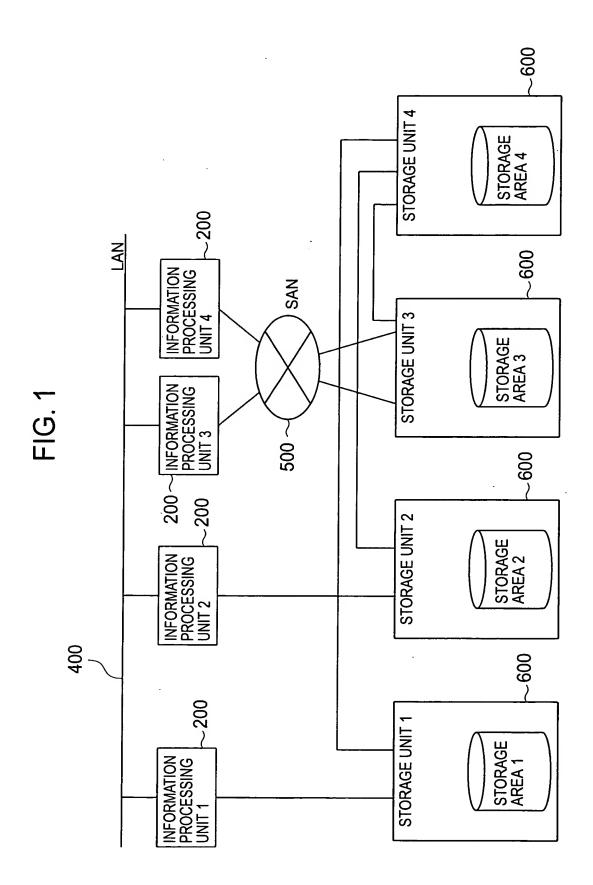
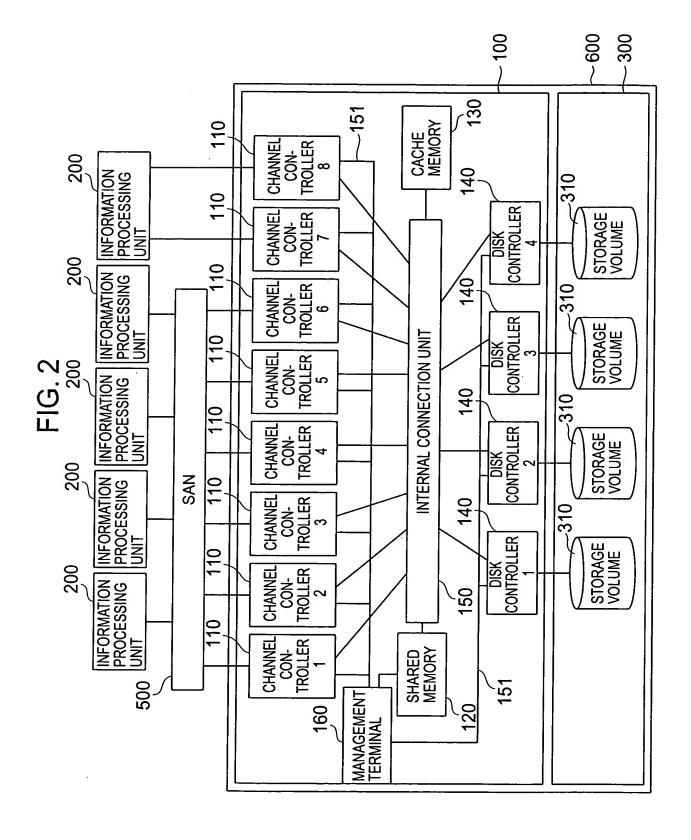
W





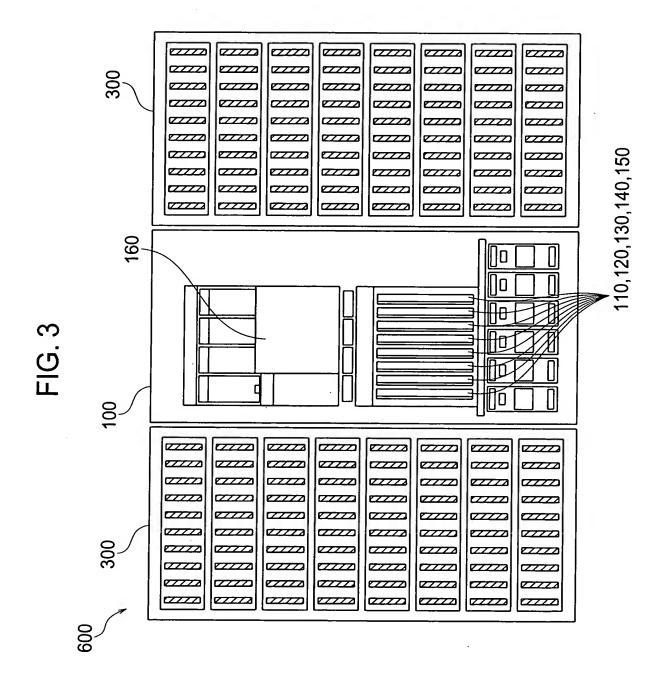


FIG. 4

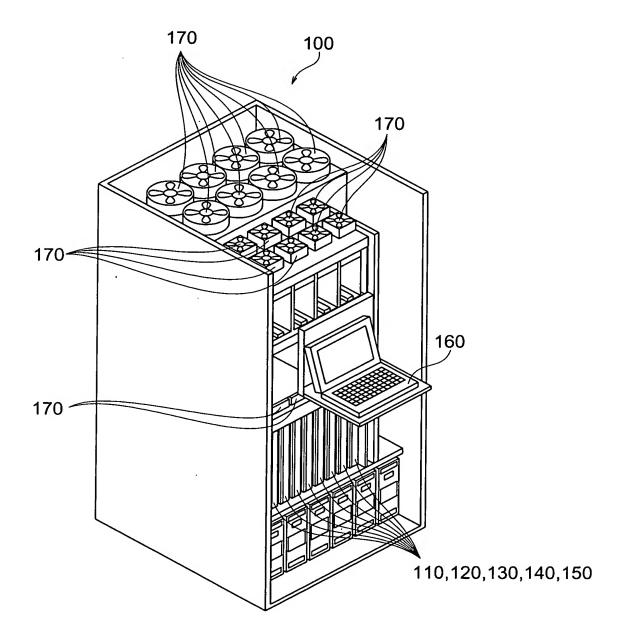


FIG. 5

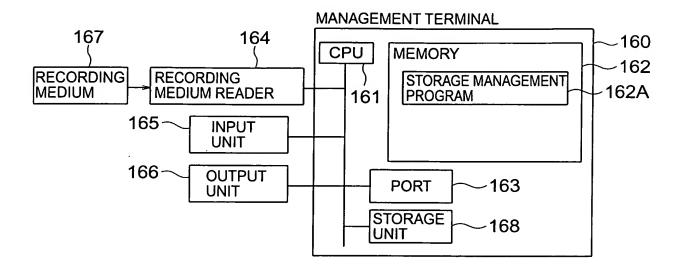


FIG. 6

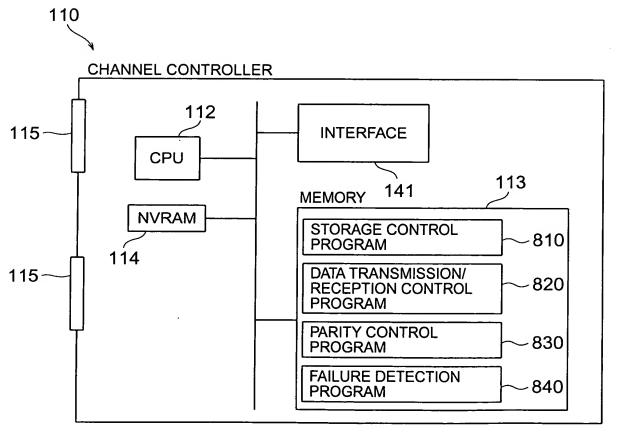


FIG. 7

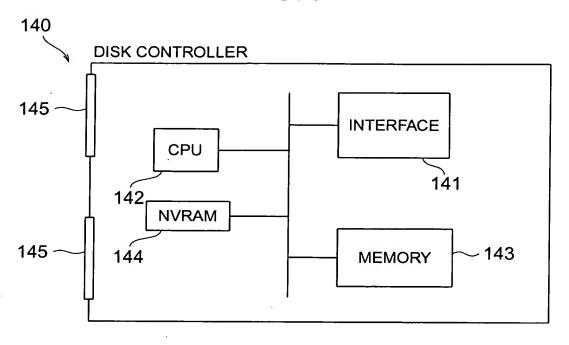


FIG. 8 200 INFORMATION PROCESSING UNIT -210 CPU 270 240 -220 **MEMORY** RECORDING RECORDING MEDIUM **MEDIUM READER PROGRAM** -220A 250-**INPUT** UNIT -230 **PORT** 260-OUTPUT **UNIT** STORAGE UNIT -280

FIG. 9

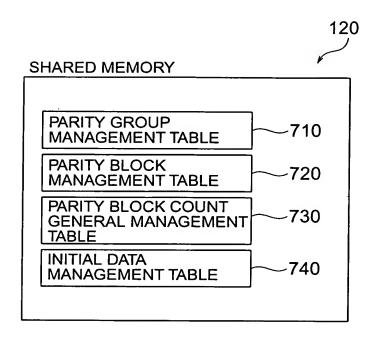


FIG. 10

		710
PARITY GROUP N	MANAGEMENT TABLE	
DATA STORING STORAGE UNIT	STORAGE UNIT 1, STORAGE UNI STORAGE UNIT 3	T 2,
PARITY STORING STORAGE UNIT	STORAGE UNIT 4	

FIG. 11

720

730

PARITY BLOCK MANAGEMENT TABLE

TARTT BEOOK WARACEWENT TABLE					
PARITY BLOCK LENGTH = 512 BYTES					
NUMBER OF PARITY BLOCKS = 800000					
LOGICAL VOLUME NUMBER	FIRST PARITY BLOCK NUMBER				
0000	0				
0001	4096				
0002	16384				
0003	40000				
0004	81920				
:	:				

FIG. 12

PARITY BLOCK COUNT GENERAL MANAGEMENT TABLE

GENERAL WANAGEWENT TABLE						
STORAGE UNIT	NUMBER OF PARITY BLOCKS					
STORAGE UNIT 1	500000					
STORAGE UNIT 2	600000					
STORAGE UNIT 3	700000					
STORAGE UNIT 4	800000					

FIG. 13A

FIG. 13B

	L DATA ENT TABLE	initial data m	ANAGEMENT TA	740 BLE
STORAGE UNIT	RECALCULATION	STORAGE UNIT	RECALCULATION	RECALCULATION
STORAGE UNIT 1	OFF	STORAGE UNIT 1	OFF	
STORAGE UNIT 2	OFF	STORAGE UNIT 2	OFF	_
STORAGE UNIT 3	ON	STORAGE UNIT 3	ON	123456
:	i	:	:	i

FIG. 13C

740 INITIAL D MANAGEMEN				
STORAGE UNIT	RECALCULATION		PARITY BLOCK	RECALCULATION
STORAGE UNIT 1	OFF		NUMBER 0	COMPLETED
STORAGE UNIT 2	OFF			
STORAGE UNIT 3	ON		1	NOT COMPLETED
	_		2	COMPLETED
:	:		:	i
		<u> </u>		
		Į	699999	COMPLETED

FIG. 14

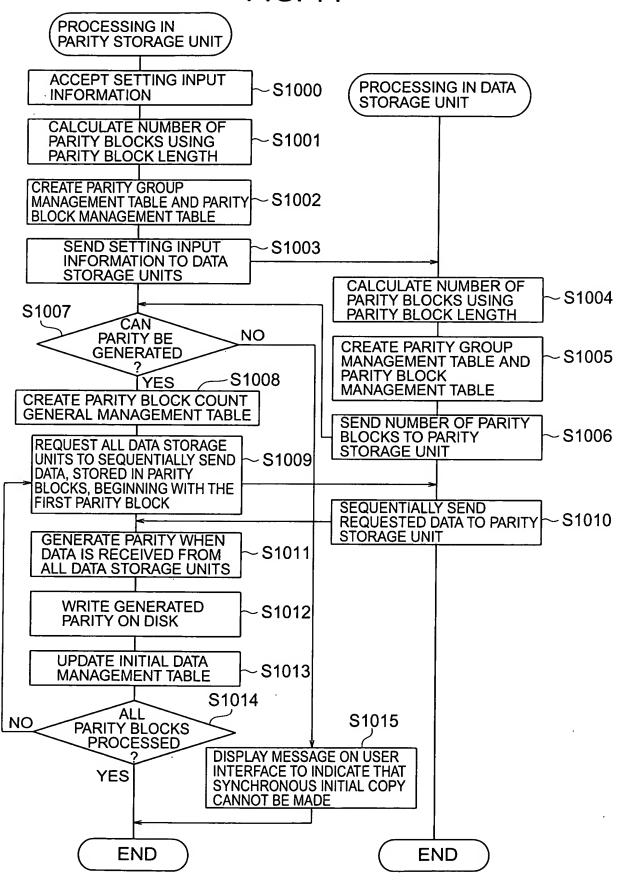


FIG. 15

SYNCHRONOUS SYSTEM PAR		
PARITY BLOCK LENGTH	512 BYTES	
PARITY GROUP CONFIGURING STORAGE UNITS	STORAGE UNIT 1 STORAGE UNIT 2 STORAGE UNIT 3	
PARITY DATA STORING STORAGE UNIT	STORAGE UNIT 4	
INITIALIZATION METHOD	SEQUENTIAL	
	OK	Cancel

RAGE UNIT	PARITY BLOCK LENGTH = 512 BYTES	FIRST PB#	0	4096	16384	40000	81920	••	
PARITY STORAGE UNIT	PARITY BLO = 512 BYTE	STORAGE VOL#	0000	0001	0005	0003	0004	• •	

FIG. 16C

E UNIT	LENGTH	FIRST PB#	0	5000	8000	10000	20000	••	
DATA STORAGE UNIT	PARITY BLOCK LENGTH = 512 BYTES	<u>ш</u>	0000	0001	0002	6000	0004	••	
									_

PARITY BLOCK LENGTH = 512 BYTES

FIRST PB#

STORAGE VOL# 0000

16384 40000

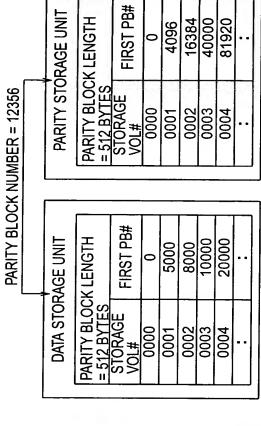
9002 9003 9004

4096

81920

PARITY STORAGE UNIT

FIG. 16D

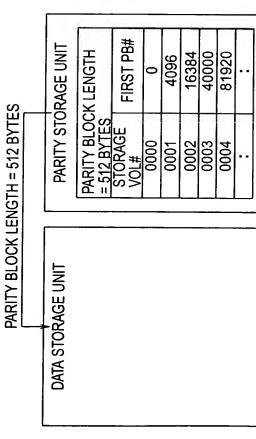


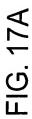
FIRST PB#

16384

81920

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- 	ī	-





PARITY STORAGE UNIT	PARITY BLOCK LENGTH = 512 BYTES	FIRST PB#	0	4096	16384	40000	81920	••
PARITY STO	PARITY BLO = 512 BYTE	STORAGE VOL#	0000	0001	0005	0003	0004	••

PARITY BLOCK LENGTH = 512 BYTES

PARITY BLOCK LENGTH = 512 BYTES

DATA STORAGE UNIT

PARITY STORAGE UNIT

FIG. 17C

FIRST PB#

STORAGE VOL#

FIRST PB#

STORAGE VOL# 0000

0000

16384

4096

0001

81920

0003

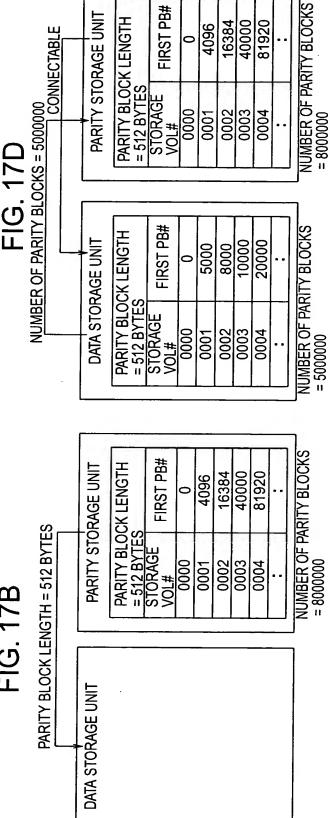
10000 20000

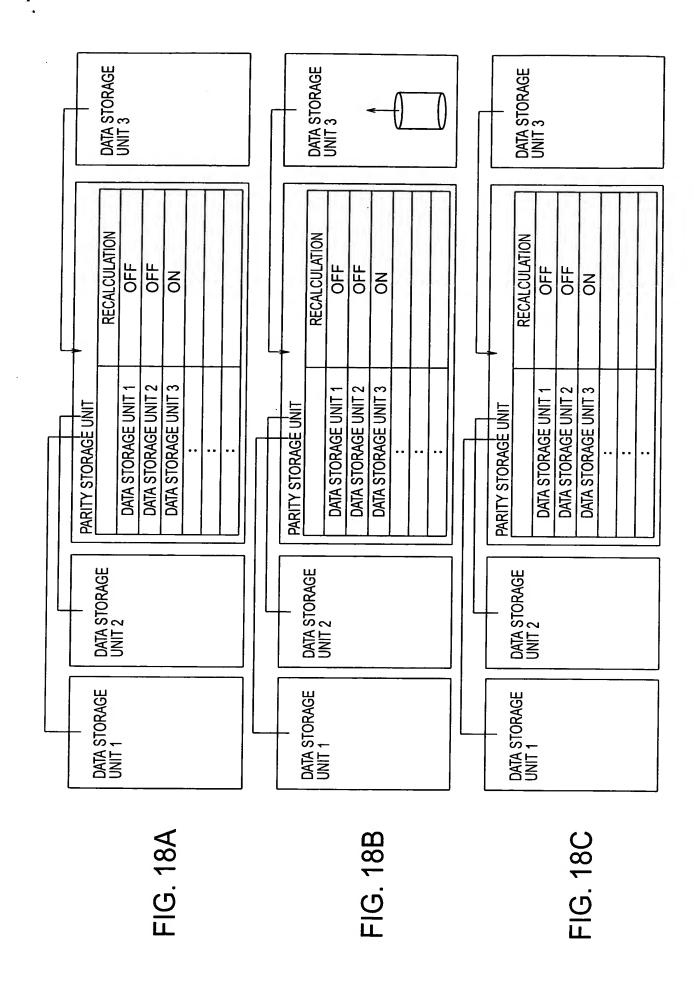
0003 0004

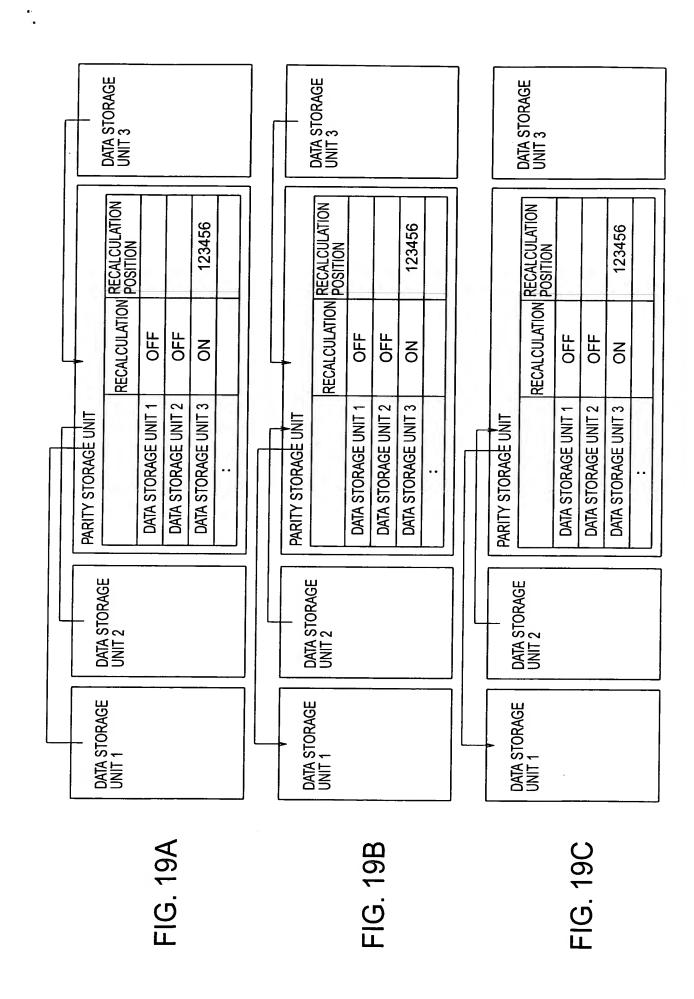
5000 8000

0001 0002 NUMBER OF PARITY BLOCKS = 5000000

FIG. 17B







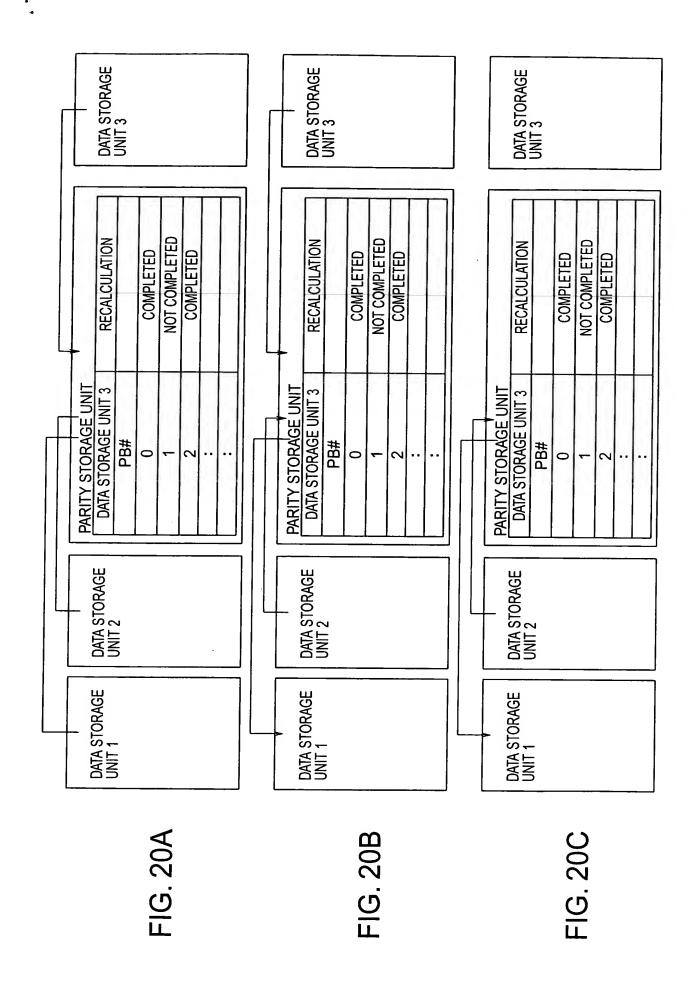
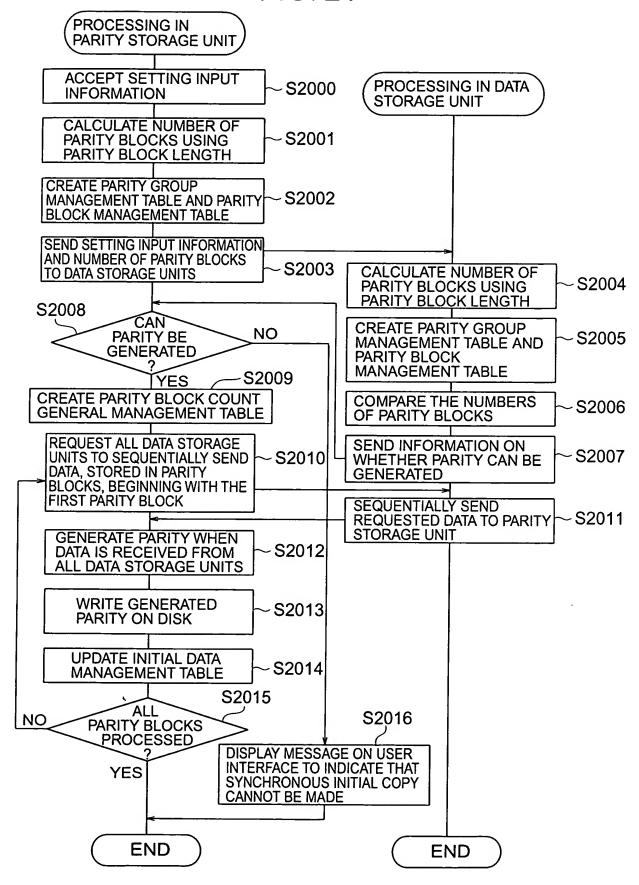


FIG. 21



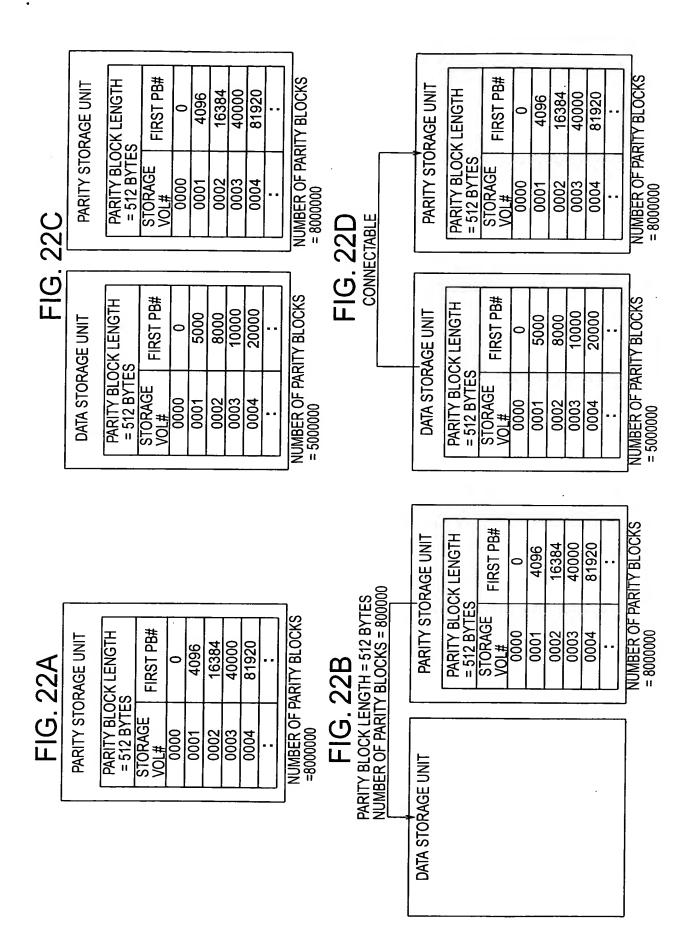


FIG. 23

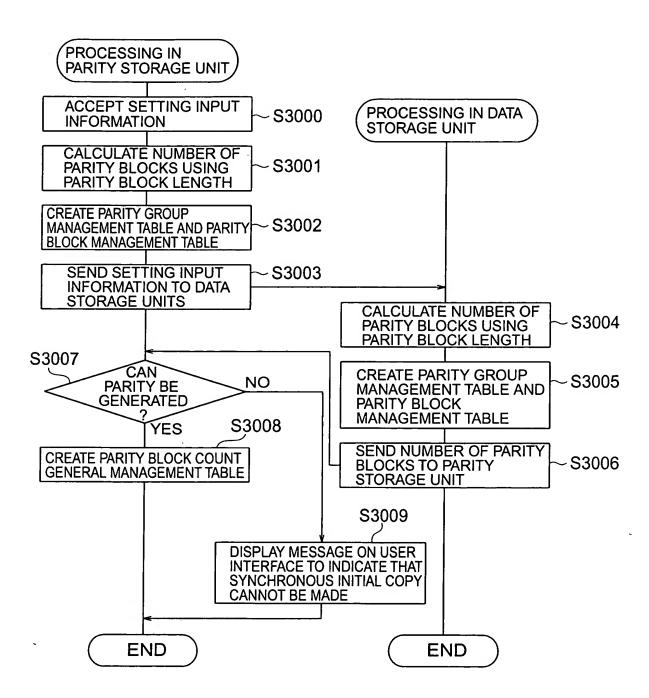


FIG. 24

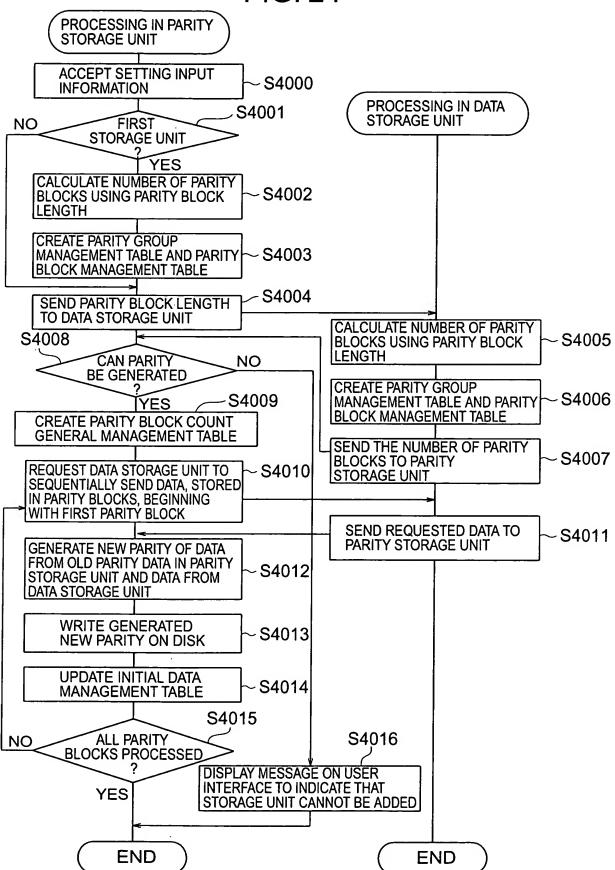


FIG. 25

ASYNCHRONOUS METHOD PARITY G			
CURRENT CONFIGURATION			
PARITY STORAGE UNIT	STOR/	AGE UNIT 4	
DATA STORAGE UNITS	STOR/	AGE UNIT 1, STORAGE UNIT 2	
PARITY BLOCK LENGTH	512 BY	TES	7
DATA STORAGE UNIT TO BE	ADDED	STORAGE UNIT 3	_
INITIALIZATION METHOD		RANDOM METHOD	
DATA STORAGE UNIT TO BE	DELETED		
		OK	Cancel

FIG. 26

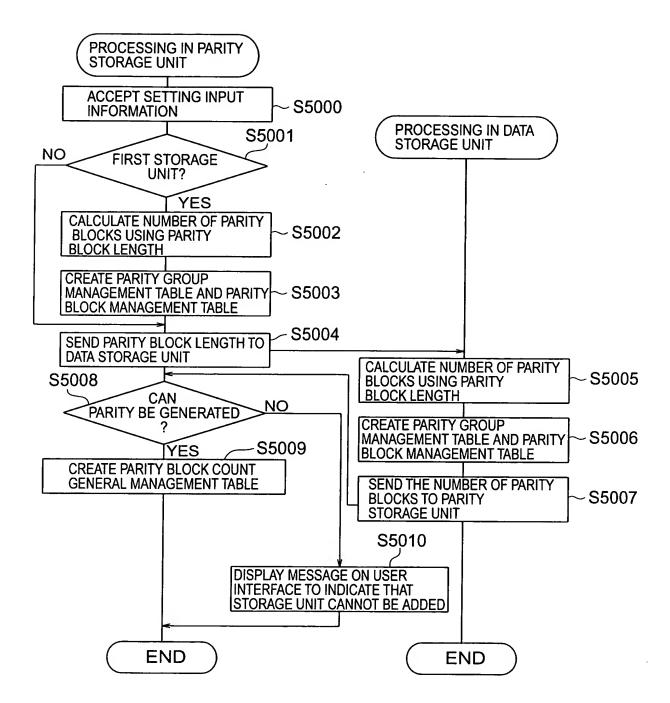
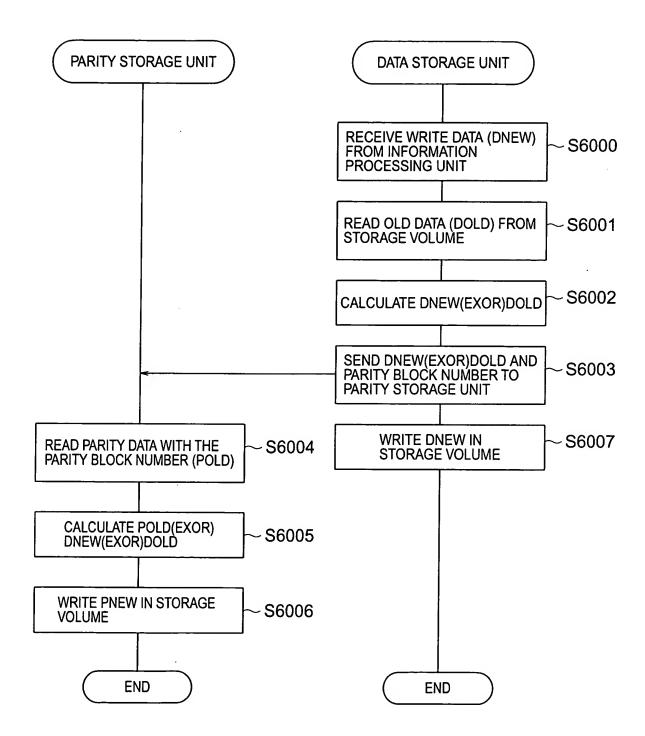


FIG. 27



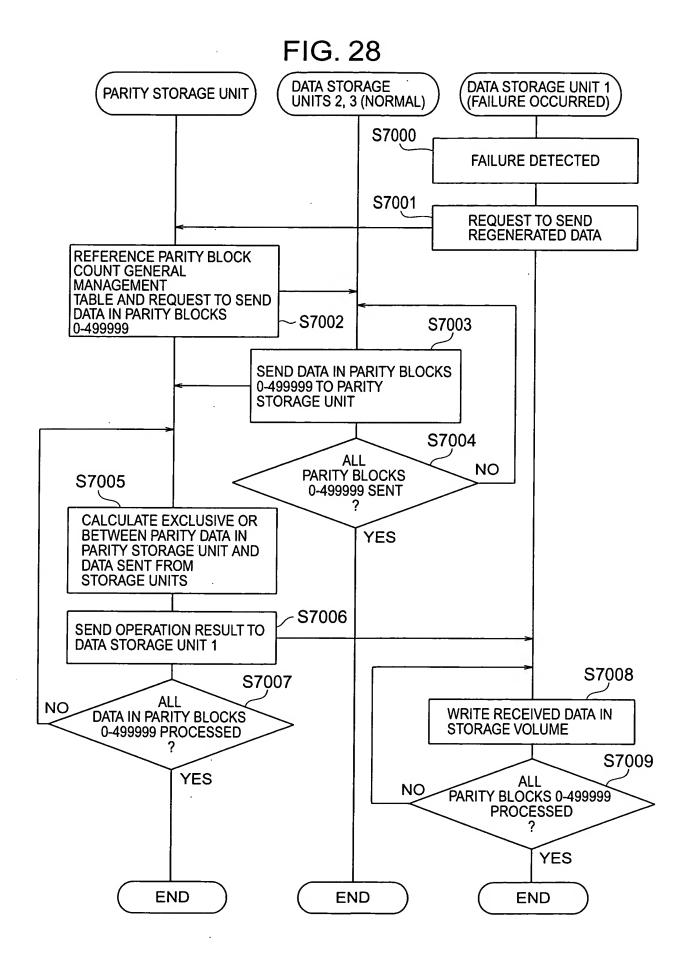
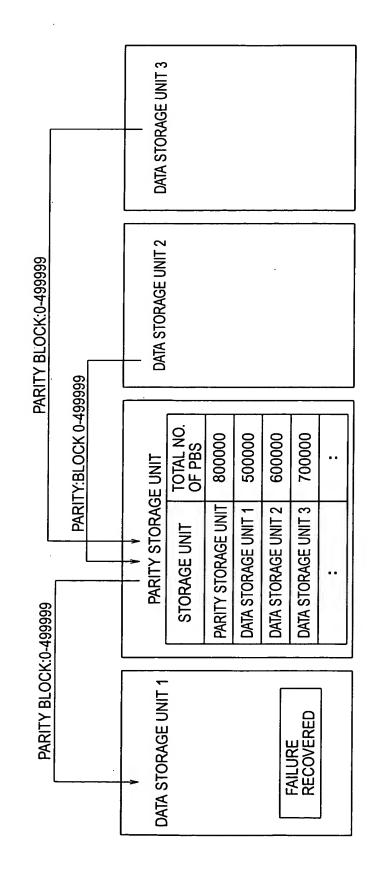


FIG. 29



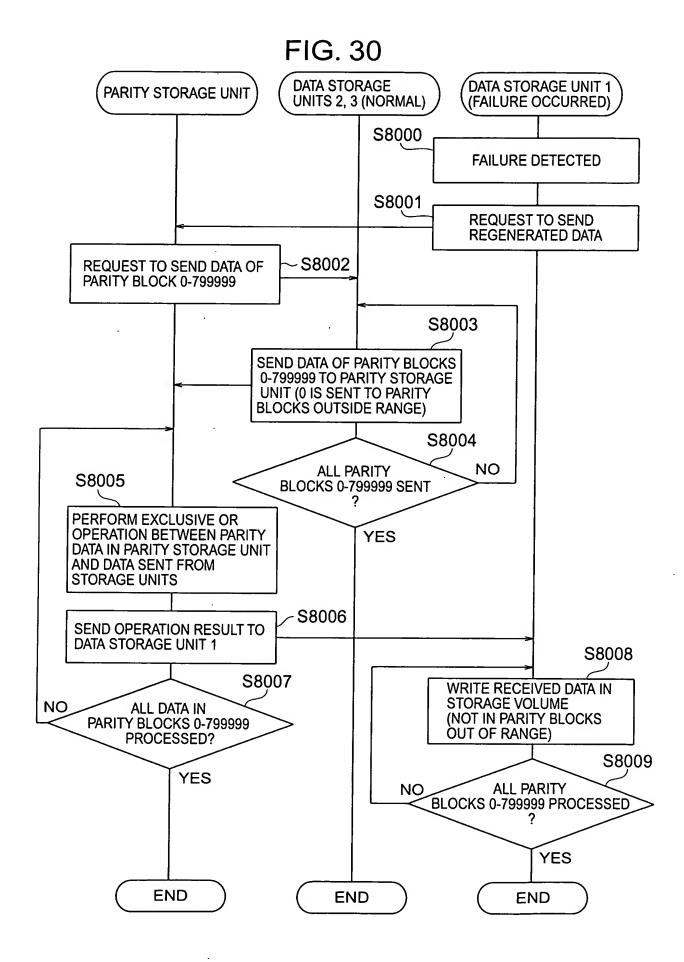
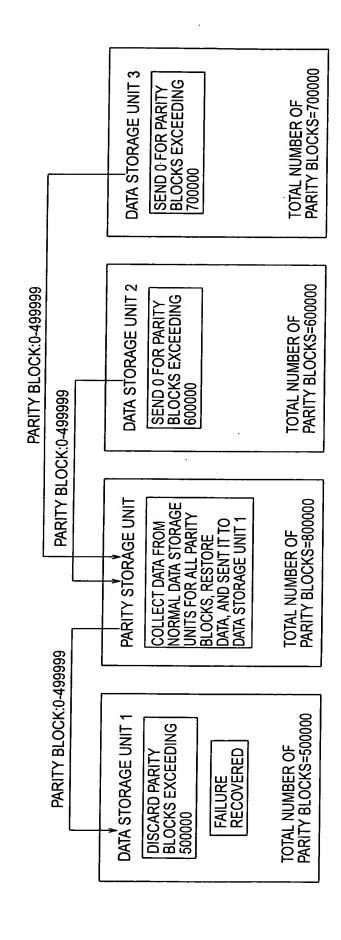


FIG. 31



۸ ...

FIG. 32

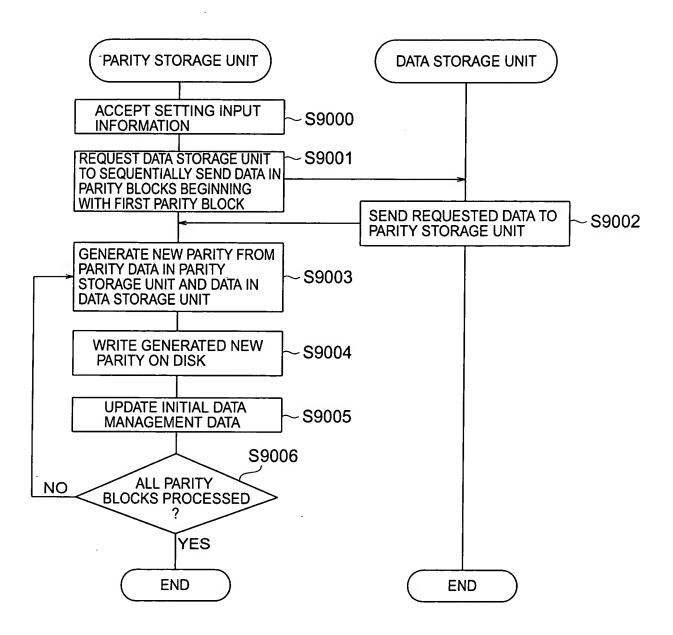


FIG. 33

PARITY BLOCK NUMBER	STATUS INFORMATION	DATA
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